

CLAIMS

I claim:

1. A nailer with improved spacer actuator design comprising:

a nailer body, with a pedestal board provided at the outlet of the bottom;

a spacer actuator design, which generally comprises a container tube and a flexible propelling unit. The hollow tube of the container tube is used to superpose the spacers of the nailer. And, the bottom of the container tube shall be fastened securely to a preset pedestal board at the bottom of the nailer, where the spacer at the base of container tube will move towards the outlet of the nailer. The features include:

a liftable cover, which allows a shaft axle to screw one side into the top of the container tube. In the case of a closing state of the cover, the hollow trough can be connected to the open-top hollow tube of the container tube. An enclosed surface is arranged at the top of the hollow trough while a L-shape guide trough is mounted at one side wall of the hollow trough. Moreover, a wedge groove is placed at the end of L-shape guide trough, where a vertical guide trough is provided at one side wall of the container tube's hollow tube. In the case of a closing state of the cover, the top end of the vertical guide trough will be connected to L-shape guide trough. Still, a fixation component is provided at the other side of the cover to ensure the fixation of the closed cover;

a propelling unit, which comprises a propelling block, a spring and a control board.

The propelling block is placed at the bottom of the hollow trough of the cover, the control board is provided at the inner side of the propelling block and the spring is mounted between the control board and inner wall of hollow trough to push down the propelling block flexibly. The outer face of the control board is provided with a toggle switch that protrudes from L-shape guide trough. When the

toggle switch is screwed into the wedge groove of L-shape guide trough, the propelling block will be fixed to avert the spring into a compressing state; When the toggle switch shifts out of the wedge groove of L-shape guide trough, the propelling block will slide downwards along the hollow tube of the container tube and place the spring into an extending state, thereby pressing and superposing flexibly the spacers within the hollow tube.

2. The spacer actuator design of a nailer defined in Claim 1, wherein fixation component of the said cover is designed with a rotary rod hook. The pivot point of the rod hook is provided at the lower part of the middle section while the bottom hook of the rod hook extends to one side of the top end of the container tube. A spring reposition component is provided between the inner side of the top of rod hook and the concave at one side of the cover, where it can flexibly push out the top end of the rod hook, namely the bottom hook of the rod hook can flexibly rotate inwards. The container tube is provided with a wedge position at one side of its top end, which is used to fix the bottom hook of the rod hook when the latter one rotates inwards.

3. The spacer actuator design of a nailer defined in Claim 1, wherein an everting inclined plane is provided at the top end of the container tube facing the connection surface of the said cover. Thereupon, when the cover is opened with a preset angle, the container tube can be fixed with one side of the cover abutting upon the above-mentioned inclined plane.

4. The spacer actuator design of a nailer defined in Claim 1, wherein the peripheral bottom of the said propelling block is designed with a ring-shaped oblique plane.

5. The spacer actuator design of a nailer defined in Claim 1, wherein the pedestal board of the said nailer is provided with a flexible spacing unit between the container tube and outlet of nailer. The spacing unit comprises a fastener post, a spring and a container base, of which the bottom of the fastener post inserts into the pedestal board while its top is fastened within the container base for the operation of the spring under its upper wall. Thereupon, the bottom of the fastener post is designed with a flexible convex, which can flexibly abut upon the spacer of the pedestal board, so as to prevent the spacer from sliding backwards.